

Name: \_\_\_\_\_

**pb1103: Factoring when  $a = \text{prime}$  (v6)**

1. Factor the expression  $3x^2 + 17x + 24$

$$(3x + 8)(x + 3)$$

2. Factor the expression  $3x^2 - 2x - 5$

$$(3x - 5)(x + 1)$$

3. Factor the expression  $11x^2 + 31x - 6$

$$(11x - 2)(x + 3)$$

4. Factor the expression  $11x^2 + 25x + 6$

$$(11x + 3)(x + 2)$$

5. Factor the expression  $7x^2 + 59x - 36$

$$(7x - 4)(x + 9)$$

6. Factor the expression  $11x^2 - 80x + 21$

$$(11x - 3)(x - 7)$$

7. Factor the expression  $5x^2 + 22x + 8$

$$(5x + 2)(x + 4)$$

8. Factor the expression  $3x^2 - 8x - 16$

$$(3x + 4)(x - 4)$$

9. Factor the expression  $2x^2 + 7x - 72$

$$(2x - 9)(x + 8)$$

10. Factor the expression  $11x^2 + 37x + 12$

$$(11x + 4)(x + 3)$$